Science Of Dry Farming; How To Do It Successfully

Dry Farming Down At Cananea

Some Practical Results In The Southwest

n fair crops. The first year showed something of the game. It is reported in dollars many ducks. better than the second, owing to better rainfall the winter before planting. The second year the winter rainfall was very scant, and the land was broken up too late in the spring to make good results. This year there has been a success on everything.

Chinese Farmers. This dry farm is unique for the rea-son that it s run altogether by two not the same as fertilizing moist land or under a lease from the Cananea rige all day and skinning mules was a picnic. These two Chinamen are the

experiment in dry farming. Two years moist layer of soil far below.

ago Jim Dodson, an old timer in the li might be suggested that the irriga-Naco in the days before the building



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The third crop made on the lands of of the Rio Yaqui and Pacific railroad that Fred made \$800 off six acres of Col. W. C. Greene, about nine miles from Naco to Cananea, and a man beans at Del Rio last fall. safely put away. The crops this year days of the bonanza grain farming, saw About half a mile from Del Rio sta-were mostly mile matze and sorghum, at once the point when the dry farm tion there is a take or rather a flat, and the company has installed an en- experiment station was started two gine and fodder cutter, and will feed miles south of him. He put in some corn feet at the lower end, and filled with cattle that are likely to die on the two years ago-about four acres-but water in the rainy season, and made an range on the dry grass during the cold owing to the winter being extremely excellent place for shooting duck, which weather. They will also have plenty of dry and no rain coming before the 13th were very plentiful there. In fact, in feed for their cow ponies and their of July, he made no corn, except good the days when Cananca was hitting the dairy and creamery, which is operated fodder. He had, however, a quarter high places, and when copper was soar-The crops were much acre of beans, and he had six sacks on better this year than ever before, and this. This place was put in just as a city in Cananea which had control of this is caused no doubt by the complete routing of the old sod and the gradual pulverization of the soil by working the land rear after year, Most of the land, in fact, all of it with the exception of twenty acres, was new exception of twenty acres, was new last year. This ranch of Col. Greene's south in the mining country working simple process of cutting the bank and last year. This ranch of Col. Greene's south in the mining country working is imple process of cutting the bank and is unique in many years. It is the first of the company, and Fred Parlin was letting the summer floods run down a for as is known, in Northern Mexico, and it has been a success from the first in that there has always first experiment, and therefore knew farm of about two hundred acres, worth level for reported.

Farming the Lake

which had been banked up about three ing around at the 25c mark, there was

Fertilizing Dry Land Soil

Chinamen, who were trained to this land in the humid regions where the work by R. Branagh, who started this soil contains a fair supply of moisture soil contains a fair supply of moisture Cattle Co. three years ago this month. at all seasons of the year. The writer is As the Chinamen were the only help informed by T. C. Wallace, of Call-that would stay with the work he formin that in the dry solls of Califorhad them runing plows and cultivators nia the roots of the grape vines are very with eight large mules. The Chinamen deep in the soil, and that, where irriga-seemed to think that sitting on these tion is or is not practiced, it is found to be very difficult to properly fertilize the whole thing, there being no foreman in vineyards and orchards. It is a problem charge of the ranch, which has about on which many are working, but it is doubtful if any have fully solved it-At Del file station, on the R. Y. and how to get the fertilizer that is put into Pacific Railroad, ten miles from Can- the surface soil to decompose and yield anea, is another very instructive little up its plant food for the roots in the

Cananeas, who used to haul coke into fion mater would do the work, but the Canapea with wagons and mules from irrigation water is not at the top of the soll for a long enough period to accomplish very much in this regard. It is not a question of dissolving what is solu-ble but seems to be a question of establishing a moist medium in the vicinity of the fertilizer in which moist medium the sell organism can work. The problem of fertilizing grape vines and fruit orchards is the greatest because these do not permit of the turning over of the soil for the purpose of working fertility

The problem that exists in California all the time exists here in the Missis-sippl valley part of the time. We have dry seasons in which the effects of the fertilizers applied to our vineyards and orchards is not greatly felt. The moisture conditions of the soil have a very large influence on the decay of manure. For this reason meny of the purchasers of ferrilizers complain of not getting results from the fertilizers, without ever taking into account the fact that availability of the plant food in the fertilizers following reasons why trees should be





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The problem of fertilizing dry land is , depends on the perfection of the water

Land habitually dry is exceedingly difficult to fertilize for the reason that the fertility remains in the soil without being submitted to the agencies that would change it into materials that the rbots of trees and vines can use. In the fertilizing of orchards and vineyards the fertilizer should be got nto the soil and should be applied at times of the year when the moisture supply is likely to be good but is not over

> If barnyard manure is to be placed in the surface sell of an orehard, it should be got in in the fall, before the coming of the fall rains if possible. If it is be applied to the surface, it should be put on in the winter, that the rains and snows may wash the soluble portions in-

> If the fertilizer is a highly nitrogen ous one, like the dried blood, it should be worked into the soil in the spring as early as possible. If it is applied in the fall, a large part of the soluble plant feed will disappear before spring, The part of this that will be most lost will be the nitrogen, the very ingredient for which the blood is applied. Yet if it is applied too late in the spring to get the benefit of the spring moisture, the ni trogen is likely to be largely dissipated

> Thus, in dry land fertilizing, the mois ture supply must be closely considered, and because it is not closely considered is the reason that some of our fruit growers do not get the results from their orchards they have expected.

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Trees counteract adverse conditions of

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Trees enhance the beauty of archi-

Practically the only objection raised to trees is the temptation they present the average tree butcher.

only that it supplies an element of plant food, but that it obsorbs moisture and is obstacle to evaporation, says ducts that contributes humus to the soil.

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BRINGS SPLENDID PRICES TO FARMER

Tucumcari, N. M., Jan. 29.-E. H. Fulwood, who owns a small broom factory in the San Jose valley, where he has a fine farm, was here this week and a Herald representative had occasion to question him in regard to the raising of broom corn in eastern New Mexico. Mr. Fulwood is one of the most widely known farmers in this section of the territory and has made broom corn a

specialty for the past few years. "Broom corn," said Mr. Fulwood, "is 99 day crop; that is, the crop chn be harvested 30 days from planting; providing average summer weather prevails. It will grow on most of the soils on which cotton will do well, but will do better in the higher attitudes, where cotton is unknown. It is both a drouth resister and a plant that will flourish luxuriantly under conditions of excessive

wet weather. The Planting. "Preparations for planting," contin-ued Mr. Fulwood, "should begin simultaneously with that of all other cropsin the fail. Plow the land deep, and let it resume firmness and reestablish capillary movement before spring. In the spring, usually about the first of May, drop the seed with a planter in drills which have been run in the flat lands, two and a half or three feet The quality of the land should govern the thickness of the stand in the drill. The poorer the land the thin-ner the stand should be. Great care hould also be taken in the selection of the seed as there is always seed of low vitality on the market. Two quarts will plant an acre, one bushel will plant 10

Needs Little Cultivation. "Broom corn needs but very little cultivation. A tooth harrow drawn crosswise to the rows after the corn is up, will thin overthick corn to a stand. A side harrow should be used among the first cultivation; after this, give shallow plowings in proportion to the needs of the corn, bedding slightly in plowing. It is advised to never use a hoe in the crop if possible, as the least injury to the base of a stalk will precipi-

said Mr. Fulwood, "should usually be gin about the first or middle of August There being two kinds of corn, two d. ferent methods are used in gathering the tops. The specials, known as the Standard, grows 10 or 12 feet high, and he method of gathering the tops these is called tabling. A man walks backward between the rows and breaks the corn down across the rows in front of him, the stalks meeting from the parallel rows and forming a table.

Cutling the Tops.

"A knife is then used to cut the tops to so cut the top that five inches of stem will be left. The heads are piled on alternative tables, so that a team ean be driven down the unused rows to haul away the product. This is carefully laid in wagons, so that no time will be lost in the necessity of arrangement in further handling. variety, the Dwarf, is handled different-This grows to about the height of man's head, and waen the corn is ripe for gathering the heads are jerked side-ways from the boot, one hand being placed against the boot to steady the stalk. The crop is gathered when the seeds are in the milk, or probably the dough, when the top being crisp, comes

Curing the Tops,

"From onehalf to a day's curing in the sun should be given, and no longer, because any longer would bleach the straw and cause it to lose its green, fresh ap pearance, and consequently a loss in price. Not a drop of dew or rain should be allowed to reach the straw after it is pulled; mold and ruination. The heads are then hauled to the thresher and threshed of their seeds. After threshing, the corn is laid away, preferably in a good dry room or barn, stacked on shelves two or three inches deep, and plenty of space intervening between the shelves for the very necessary circulation of air, which continues the curing process. After 10 days or two weeks the straw is bulked, where the curing try to the base of a stalk will precipi-te a deformed head.
"Harvesting in eastern New Mexico,"

process is completed by going through
a kind of heating, following which the
straw is baled and sold."

STARTING PLANTS FOR THE VEGETABLE GARDEN

Bulletin Issued from Mesilla Park College

. E. Mundell, who is at the head of | of the cloth and the size of the frame, the agricultural department of this institution, has just compiled the following bulletin which should prove of inch thick will be sufficiently heavy. benefit to early gardeners.

It is nearing the season of the year then the early gardener will want to start a few plants for early vegetables. The hotbed offers one of the ensiest means to do this. To prepare the hotbed make a frame or box the size de-The city forester of Chicago gives the usual size is from 412 to 6 feet wide It is not a good idea to make the bed too wide because it prevents the grower from easily it. The frame can be made out of common one by six inch lumber, but heavier material may be used if desired. After sawing off the pieces for the four sides nail them together at corners. Place this box over the place marked for the hotbed. At each corner and in the center of each piece, on the outside of the frame, sink or drive into the ground a two by four stake 30 inches long, nall the box to these stakes. The box so secured to these stakes will not spread or slip up or

> When the frame has been prepared as above, dig out the soil inside of it to a depth of 24 inches. When digmake it a litle bigger at the bottom than at the top so that the heating material when placed in the plt will be under the whole surface of the area inside the frame.

Into this pit place the heating material from 16 to 20 inches deep. Care should be taken to tramp the manure down firmly and evenly so as to make the mass compact and smooth on top. On top of this place five or six inches of rich well crumpled loamy soil. After the temperature of the soll has become somewhat uniform the seed may be planted. After the planting of the seed care should be taken to see that the soil does not become dry, because if it Rural Californian. It also prevents soil does not become dry, because if it erosion and waste. The most successful does the young plants will likely be farmer is one who takes the most pains to utilize every element of his farm pro low causes the water to evaporate low causes the water to evaporate. low causes the water to evaporate rapidly from the soil. This being the This is especially important in localities case it is important to apply more water where the surface is uneven or broken, than is ordinarily required in an outwhere the surface is uneven or broken, than is ordinarily required in an out-and the earth is not firm, or in other words is easily eroded by rainfall.

than is ordinarily required in an out-side bed. Probably more failures are caused in growing plants in the hotbed by injudicious and improper watering than from any other cause

To Heat the Bed. In regard to the kind of material to ise for heating, fresh horse manure is probably the best. In preparing the nanure for the hotbed, secure the mount needed for it and place the same in a pile. When piling it up put on enough water to thoroughly moisten the whole mass. If fermentation does not commence soon it can be hastened by throwing upon the pile a few buckets of hot water. When the manure has begun to heat well turn over the whole mass into a new pile. This will make the heating of the whole uniform. If necessary add more water. The fermenting manure should not be allowed to become dry nor should it be made too wet. After the heating has become wishes to regain his manly power and virility, quickly and quietly, should have a copy. So I have determined to send a copy of the prescription free of charge, in a plain, ordinary sealed entering the contain much straw or velope to any man who will write me for it.

This prescription comes from a straw or other litter, it is better to add some straw or other coarse material. This This prescription comes from a physician who has made a special study of men and I am convinced it is the surest acting combination for the cure of deficient manhood and vigor failure ever the straw or other coarse material.

Straw or other coarse material.

In the straw or other coarse material. straw or other coarse material. This

is the three by six foot sash. The cold

Agricultural College, N. M., Jan. 29- piece or frames may be made the width to which the cloth may be tacked. These frames can be made out of light lumber. Strips two inches wide by one The frames may be morticed at the corners and nailed together or small strap angle from like those used on the body of carriages can be screwed upon the corners which will hold the firmly. On very warm days the frame | always be had green fodder for may be raised to let out some of the excessive heat and to let more light in. On extreme cold nights an extra covering may be thrown over the hotbed to prevent injury to the plants growing therein.

To Start Plants.

For starting plants for early vegeables such as celery, cauliflower, cabbage, onions, lettuce, tomatoes, and others, the hothed offers an easy means Vegetables like radishes, lettuce, and onions may be grown for midwinter use in the hotbed. Twenty inches of manure in the hotbed ought to furnish enough heat to last six or eight weeks. ~~++++++++++++

+ INTERESTING BOYS

is a problem that has been interesting people for a great many years. Fred W. Avery, of Natchez, Miss., says that in his state they have formed corngrowing clubs, and by offering prizes to juveniles, "have worked them up to a state of tremendous enthusiasm. One lad under 18 years not long age took first prize and astonished the whole country by his extraordinary harvest of 138 bushels of corn from a single acre, the yield being all the more remarkable as it was in a section not specially adapted to corn. Another youth in the same club was the proud producer of 101 bushels on an acre. Over 200 boys were in that particular club, and the results attained by them far surpassed these of the older men who had similar organization."

> BENEFITS OF SCIENTIFIC AGRICULTURE.

Chiengo Examiner

When Horace Greeley advised young Americans of his day to "Go west" and Imagination and business sense. If Greeley were alive today he would probably qualify his advice to homeseekers by saying, "Go east," or "Go south," as well as "Go west," if they

are seeking new opportunities and independence. For a new spirit has come over the expert agriculturist's dream. There are fortunes walting on the abandoned

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the western rush. Also in the glorious or home range to be cared for by the south, where nature smiles and millions water users' association. of acres of virgin soil still luxuriate. And the great west still beckons. Its

index finger of opportunity points to millions of acres of new lands claimed from semi-aridity. It holds in its generous bosom whole empires, thought hopeless, that are now beginning to blossom as the rose. In scientific agriculture, place is secondary-skill everything. We harness

rainfalls. We ignore climatic idiosyncrasies. Given God's free air and the virgin soil, the scientific farmer holds the key of independence and even And the modern farmer leaving the

has more comforts, and even more luxurles, than average city life a few

****** IRRIGATION AND SAVING

leading to success in farming in the lead and our farms will soon be occuarid and semi-arid west is found where pied and the country benefited. It is possible to have a relatively small tract of well irrigated land adjacent to a large area of dry farming and grazing land. This permits of the widest diversity of occupation and the rounding out of an establishment practically complete in itself. The irrigated land is capable of producing each year one or more good crops which can be counted on with almost mathematical precision. Where the climate is favorable, fruit trees, berries, bushes and garden vegetables flourish, and shade trees or flowers are possible for the beautifying of the home.

On the adjacent dry farming land, with ordinary skill and in average years, the grains or other standard field crops can be produced. If in exceptionally dry seasons or by reason of hot winds these crops are not successful, the irrigated land tides over temporary depressions until there comes a favorable year when the crops will repay the labor lost during the lean years. The dry farming land also serves a useful purpose from time to time for a home range for the cattle and if the farm extends up into the foothills to the summer grazing lands the cycle

of opportunity is complete. From the irrigated area there can cattle and hay can be cut for feeding during severe winters. This ideal arrangements has been possible of realization in a few instances on reclamaarranged in such a manner that 40 ditch. Attempts have been made also er of 40 or 80 acres within the irri- own gated tract could obtain title to a lief and permanent cure assured. Send large area of dry land near the project. The suggestion has also been fer. Write today to Mrs. M. Summers, considered of endeavoring to segregate Box P. Notre Dame, Ind.

farms of New England and the mid- the dry lands which surround the re-Atlantic states. Also in the middle-western states, where the sons of orginal soil tillers have disappeared in munity as a general grazing ground

> ++++++++++++++ WARNS OF DANGER OF TOO LARGE FARMS.

By Anders L. Nordt, Member Executive Committee National Dry Farming Congress.

The work of the general land agent who sells great tracts of land is not to be encouraged, for what is desired is the man who can take up a small tract and operate it successfully. The great city behind him no longer leaves the trouble and danger in farming life is city's comforts behind him also. He for a man to try to carry more than his takes them with him. Modern farm life capital warrants. It must be remembered that no business can thrive without capital of some capacity-capacity sufficient to carry on its work, and the poor man is prone to tackle more than he can handle. The man hat says "get a big-tract and work it on a few hundred dollars" is misleading. Make sura of what you can do and then do it. Take a small tract and cultivate it and thrive, and if capital is demanded for its success you will have it and the result will The ideal combination of conditions be to encourage others to follow your

> FARM CONDITIONS ARE IMPROVING.

By Frederick A. Delano, President Wabash Railroad.

Congestion in large cities means high rents, high rents mean high wages; deficient productivity of the farms means high cost of farm productions. high cost of living for the city man, and that again means higher wages and higher cost of railway operation. railroads have favored, and I think should continue to help in any proper way they can, anything which will tend to improve and ameliorate the condition of the farmer. I do not mean to say for a minute that the farmer needs any sympathy or commiseration. In the states of the Mississippi valley farm lands have, generally speaking, doubled in value in the last ten years. Furthermore, during that time conditions of life on the farms have materially im-

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zation in a few instances on reclama-tion projects where the farms could be arranged in such a manner that 40 acres or more lie under a canal with the remainder extending above the remainder extending above the absorption treatment; and will also send some of this home treatment free to secure legislation by which the own- for trial, with references from your locality if requested. Immediate re-





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